

**METHOD AND APPARATUS FOR INFLUENCING THE TRANSPORT OF  
BLOOD CAROTENOIDS INTO INTRADUCTAL BREAST FLUID**

Abstract of the Disclosure

5       Methods and devices are disclosed for reducing the level of carcinogens in the  
breast, and influencing the transport of blood carotenoids into the intraductal  
environment. In one embodiment, the device comprises a pump having compression,  
suction, and heat adapted to optimize noninvasive extraction of intraductal breast fluid  
during periods of non-lactation, from a parous or nulliparous patient.

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